

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 16+10 to 17+30.****Date: 11/02/2005**

<b>Dredging</b>	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b><u>Load Number</u></b>	DR-1	20.7	7:18:06	7367821.94	942748.57	7.5	
1113	DR-2	19.9	7:20:32	7367858.89	943032.98	19.7	11.1
<b><u>Tidal Stage</u></b>	DR-2R1	19.5	7:20:35	7367858.89	943032.98	21.7	11.1
Flood	DR-4	20.0	7:21:50	7368278.57	943277.44	13.6	
<b><u>Dredge State:</u></b>	DR-4R1	20.2	7:21:53	7368278.57	943277.44	13.0	
Overflow through skimmers	DR-3	21.1	7:23:17	7367023.24	942945.43	7.0	
only	DR-1R1	20.9	7:24:52	7365653.51	942295.75	6.7	
<b><u>Weather:</u></b>							
Overcast, Raining							
<b><u>Wind:</u></b>							
5-10 kts							
<b><u>Seas:</u></b>							
0-1'							
<b><u>Disposal location</u></b>							
Columbia River DWS							

<b>Remarks:</b>	<b>Action Taken:</b>
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of plume, on starboard side.	
DR-1R1 taken due to irregularly high background.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>	<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:				Contract Number: W9127N-05-C-0012			
<b>Columbia River Channel Improvement - RM 19+00 to 21+20</b>							
<b>Date: 11/02/2005</b>							
<b>Dredging</b> <b>Load Number</b> 1114 <b>Tidal Stage</b> Ebb <b>Dredge State:</b>  Overflow through skimmers only  <b>Weather:</b> Overcast, Raining <b>Wind:</b> 5-10 kts <b>Seas:</b> 0-1'  <b>Disposal location</b> Columbia River RM 17.5 & 18.8	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DR-1	20.2	13:12:02	7385496.25	951269.28	4.5	
	DR-2	19.7	13:14:13	7385807.83	951354.16	11.8	11.1
	DR-2R1	19.2	13:14:20	7385820.47	951353.66	10.5	10.9
	DR-4	21.1	13:16:43	7386293.33	951565.94	4.3	
	DR-3	19.8	13:19:28	7384807.43	951041.32	4.9	
<b>Remarks:</b>				<b>Action Taken:</b>			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 taken in the plume.							
DR-3 taken out of plume, on starboard side.							
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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<b>Columbia River Channel Improvement - RM 19+00 to 21+20</b>							
Date: 11/02/2005							
<b>Disposal</b> <b>Load Number</b> 1114 <b>Tidal Stage</b> Ebb <b>Dredge State:</b> Split Hull  <b>Weather:</b> Overcast, Raining <b>Wind:</b> 5-10 kts <b>Seas:</b> 2-3'  <b>Disposal location</b> Columbia River RM 17.5 & 18.8	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X Coordinate</b>	<b>Y Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DSP-1	18.8	13:44:10	7375306.31	946088.41	3.5	
	DSP-3	19.4	13:45:10	7375130.18	946223.29	15.1	
	DSP-3R1	18.5	13:45:17	7375122.00	946229.71	10.2	
	DSP-2	18.1	13:46:30	7375336.28	946202.79	7.4	11.0
	DSP-2R1	19.3	13:46:37	7375332.55	946215.10	5.3	10.9
	DSP-4	18.1	13:47:50	7374908.04	946055.86	14.5	
	DSP-4R1	18.5	13:48:02	7374908.04	946055.86	7.3	
<b>Remarks:</b>				<b>Action Taken:</b>			
DSP-2 exceeded 10% over background, taken in the plume.				Re-test DSP-2R1 was taken.			
DSP-4 exceeded 10% over background, taken in the plume.				Re-test DSP-4R1 was taken.			
DSP-3 exceeded 10% over background, taken out of the plume,				Re-test DSP-3R1 was taken.			
on port side				The disposal ended and the dredge moved away from the area.			
DSP-3 taken out of order to ensure completion of test.							
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DSP-2	100' Down Current						
DSP-3	150' Radially from point of dredge (Port or Starboard)						
DSP-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 19+00 to 21+20**

Date: 11/02/2005

<div>Dredging</div> <div>Load Number</div> <div>1115</div> <div>Tidal Stage</div> <div>Ebb</div> <div>Dredge State:</div> <div>Overflow through skimmers only</div> <div>Weather:</div> <div>Overcast, Raining</div> <div>Wind:</div> <div>5-10 kts</div> <div>Seas:</div> <div>2-3'</div> <div>Disposal location</div> <div>Columbia River RM 17.5 &amp; 18.8</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	3.4	15:07:57	7382255.02	949507.15	3.4	
	DR-2	19.5	15:22:39	7380434.37	948959.78	20.4	11.1
	DR-2R1	19.8	15:22:45	7380413.05	948954.55	14.9	11.2
	DR-4	20.4	15:31:37	7380562.79	949003.28	18.2	
	DR-4R1	20.2	15:31:44	7380558.57	949003.45	13.7	
	DR-3	19.1	15:34:47	7382340.13	949418.57	3.7	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 taken out of plume, on starboard side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						